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(Chesnut St Inaugural Essay)

on the

Importance of Position in

Surgical Diseases. Paper March 3
1829

Submitted to the Medical Faculty

of the

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For the Degree of Doctor of Medicine

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of Pennsylvania.

Dec. 4th 1829.

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The treatment of surgical diseases, has been much improved within the last half century, & may now be considered nearer perfection, than at any former period.

Much as has been written, & great as is the light which has been thrown on the principal, & more leading parts of the art; yet many surgeons, have paid too little attention to, & not laid sufficient stress on directions, which might to some appear unimportant & unnecessary.

Diseases apparently, of less moment & less interesting to the surgeon, have been rather neglected & allowed to move on their course, without much being done to improve their condition.

This is in a great measure, to be attributed to the fame & reputation generally acquired by bold & capital operations, when successfully performed, such having more effect with the public, than the well conducted & judicious

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treatment of diseases which do not appear to be of so much consequence.

An evidence of this is seen, in the slight importance which some surgical writers attach, to the position of the patient, in certain diseases, & by others the total neglect of it.

Many diseases & accidents might be enumerated, which have suffered by not attending to this very important point, & particularly those of the extremities, such ~~as~~ inflammation, contusions, wounds, ulcers, inflammation of the hip, knee, & ankle joints &c.

It is proposed in this essay, to consider those diseases in which the treatment is assisted by position, & the application of this direction as a recommendation for the cure, & an essential part of the surgeon's duty, in such diseases. The subject will be treated of under the following different heads.

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1st The effect of position on the circulation of the blood.

a. On Hemorrhage.

2nd Position in inflammation.

a. Abscess.

b. Burns.

c. Ulcers.

3rd Position in inflammation of the joints.

4th Wounds.

a. Incised wounds.

b. Punctured & contused wounds.

c. Wounds of particular parts.

d. Wounds of the veins.

1st The effect of position on the circulation of the blood.

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is greatly dependant on the action of the heart,
& the latter is very much influenced by muscular
action. Exercise or in other words muscular action,
will increase the action of the heart, according as
it is violent. The greater strength, fullness, & frequency
of the pulse, during violent muscular action, may
be observed by every one who directs a little at-
tention to his pulse. Muscular action less violent,
will also increase the action of the heart &
arteries, in a lesser degree, & ~~the~~ more especially if
the person has been debilitated previously.

The pulse is more frequent in a sitting posture,
than when recumbent, & still more frequent in
the erect position.

This difference in the action of the heart &
arteries in the several postures, is explained by
recollecting, that more muscles are in action
when in the erect posture, than are necessary to
maintain a sitting posture, & more muscular

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action is necessary when sitting, than is employed in the recumbent position. Hence the necessity of keeping patients in the recumbent position, when we wish to diminish the action of the heart & arteries.

Gyroscope is more easily induced by bloodletting, when the patient is in the erect position than when lying, & this may appear to contradict what has just been said respecting the recumbent position. But better explains how gyroscope is more easily induced by loss of blood in the erect position, in the following manner; "Whether hemorrhage be spontaneous, accidental, or artificial, in order that the functions of the brain shall be regular or healthy, a certain quantity of blood to the brain is necessary. If this is diminished, the gyroscope may be the result, as proved by the fact that the effect will not be so apt to take place, if the patient is laid in the

& follows Section Vol. 2 page 145.

vascular system. In performing the afflux of blood
to the arteries & retards the return of it to
the veins, & thus preserving the necessary fullness of
the vessels of the brain?*

Physicians, and surgeons, frequently direct bleed-
ing to be caused to the extent of producing
a general impression on the system, & this
is evinced by syncope on an approach to it.
In performing the operation with a view of
inducing syncope, & to obtain the advantages
thus produced, the position in which the patient
is placed, ought always to be borne in mind.
Because the quantity of blood which might
be abstracted whilst standing, or sitting, may
be so small as to have little or no effect,
in a case of violent inflammation of an
important organ, & yet the patient may
faint under the abstraction of 4 or 5 ℥ of
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In case of this kind, the patient is to be placed in the recumbent position, in order that sufficient blood may be taken to have a decided effect on the sustained part.

On the contrary, when it is desired to produce a general relaxation of the muscular system, by bleeding, as in dislocations which are difficult to reduce the patient is placed in the erect position, so that the desired effect may be thus obtained, with the loss of the least quantity of blood.

In a note to Sir Astley Cooper's lecture, Mr. Yarnall mentions the following case which is in print.

"A stout man was admitted into Guy's Hospital having a simple fracture of the tibia with considerable contusion of the surrounding parts; a day or two after his admission, he had ~~some~~ complete muscular irritation, & acute pain with spasmodic action of the muscles

*600 pages lectures by Byrnes note page 34 Vol. 1st

now the seat of the ineur. To relieve
these symptoms, the doctor was directed
to take some blood from the arm of the
patient, which he did, but thinking it
proper that faintness should be produced,
as a proof of its effect on the constitution,
& forgetting that the patient was in a
recumbent position, he abstracted so
large a quantity of blood that all power
of nutrition was completely annihilated,
& the man died."*

Although the circulation of the blood is
not affected upon Hydraulic principles,
yet to a certain extent, the blood is affec-
ted by the laws of gravity whilst moving
in a direction contrary to its own weight.
The blood is diminished in velocity & in
quantity, when it must ascend against
its gravity. This is even in the effects produced

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by bloodletting as already mentioned, on the quantity of blood circulating in the veins; according as the position is varied, & its return to the heart is facilitated by the erect position.

If the velocity of the blood is diminished, when it has to ascend by the arteries, & its return by the vein being thus at the same time favoured by position, it follows that the quantity of blood in the part to which it is sent must be diminished.

a. Position in Hemorrhage.

Hæmoptysis, is said to be most frequent in the night, owing to the position of the patient, the lower extremities being flexed, & this induces a greater determination of blood to the lungs. In the treatment of this Hemorrhage, we are told by Dr Chapman

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to elevate the head & shoulders, & extend the lower extremities.

Epidystaxis is sometimes brought on in those who are subject to it, by having the head lower than usual, & in treating such cases, the erect or sitting posture is recommended. In the treatment of Ulcerine & Haemorrhoidal bleedings, the patients are directed to be kept in the horizontal position, with the hips elevated.

In all cases of haemorrhage which are accidental, the elevation of the part from which the bleeding proceeds, will have a tendency to diminish the flow of blood, if the bleeding vessels are not large. In wounds, where the vessels divided are so small as not to require a ligature & yet do bleed, the part should be elevated, & more especially, if it be one of the extremities.

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1st Position in Inflammation.

When a part is in a state of inflammation, it is pretty evident that the velocity of the blood in the vessels of the inflamed part is increased. The quantity of blood in the affected part is also augmented.

To diminish this activity of the vessels, & lessen the increased quantity of blood, is a leading indication in the treatment of inflammation. And one of the most efficient means of fulfilling this indication is local bleeding. The position in which the part is placed, will also have great influence over the circulation of blood in it.

When a limb is put in a depending position, the motion of the blood in the arteries is favoured, & that of the veins retarded, which will have a tendency to increase the congestion in the part.

* Hunter on the Blood page 193.

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It is well known that the pain & swelling are increased, if a limb be allowed to remain dependent when it is inflamed; & that a change to a horizontal or elevated position, will have the effect of diminishing the pain & swelling.

Mr Hunter ascribes the increase of pain in a dependant part to an increase in the length of the column of blood in the vein. By keeping a limb elevated we accomplish in some degree, what is done by local bleeding. The increased quantity of blood in the part, will gravitate to some other part, & if the position be maintained, the blood will ascend with greater difficulty, & return by the vein more readily.

The practice of elevating parts when inflamed, & for the suppression of hemorrhage, has been established by Dr Physick, & it is one of the

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numerous instances of a disease, apparently trifling & unimportant in itself, but being attended to, leading to results the most happy. The principle is as simple, as the practice is useful.

Dr. Physick has been able by position alone, to relieve pain & remove inflammation, & to effect the most perfect cure, after other remedies had failed. It is said he was first led into the practice, by observing that ladies, who were anxious to have delicate looking hands, kept them elevated, & being - so "successful in their hands", it was reasonable it would be so in other cases.

In all cases of inflammation, much advantage is gained by elevating the part, if it can be done. This applies more especially to the extremities, but is also applicable to other parts. Thus in inflammation

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of the mammae, or in that termination of inflammation disseminated swelling, the patient is to be placed in the recumbent posture, & on the opposite side to cooperate with other means in lessening inflammation, or removing the induration.

In hernia humeralis the recumbent posture is recommended. In phymosis Dr. Harris recommends the parts to be kept elevated, to assist in reducing the inflammation of the glans. In a word, any part that is in a state of inflammation, ought to be kept elevated, unless there is some good cause to prevent it. I do not know that the practice is generally adopted in inflammation of the brain, but at present know no objection to it, & the probability is that benefit would result in all cases of too great determination of blood to the head, by

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elevating it above the level of the remainder of the body, & favour the return of blood, & drain it from the head.

In the erect posture, the venous blood is interrupted & impeded in its circulation by gravity, & perhaps the capillaries assuming an increased action, & secretion of serum, cause an oedema, or dropsical effusion, this being an effort to relieve the larger vessels.

Where inflammation terminates in effusion in the cellular membrane, or where this effect is produced by other causes, the absorption of the fluid is delayed, subsequent accumulation prevented by position.

In oedema of the lower extremities, bandaging, and often need to support the legs, & diffuse the fluid & not allow it to accumulate. Analogous effects are obtained by elevating the limb, the effusion is more readily absorbed.

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because there will be a greater number of absorbents acting on the swelled limb to be absorbed. After fracturing of the leg, the inflammation sometimes runs so high, & the swelling is so great, as not to admit the splints to be applied. Cases of this kind I have seen treated at the Pennsylvania Hospital, by elevating the limb, & applying cold water, & in a short time the inflammation was reduced, & the swelling removed, so that the appropriate dressings could then be applied, without doing injury. This may be done either by elevating the foot of the bed, as recommended by Dr. Physick, or using inclined frames for the limb to rest upon. Blood is by this means retracted from the limb, & the inflammation, & swelling are reduced.

Perhaps the same practice would be beneficial in the oedematous swellings of the lower



extremities of parajural women, called Phleg-
macea Dolens.

a. Abscess.

Inflammation having terminated in the secre-
tion of pus, it is of some importance to remember,
that this fluid will generally tend to the most
depending part, ~~as~~ in mammaries & pueral abscesses.
When an opening is made for the evacuation of
the pus, it should therefore always be made in the
most depending part of the abscess, unless its
situation will not admit of this being done.
Sometimes circular sinusses are made: in
such cases abundance of pus, will often sup-
ply for the evacuation of pus, without
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other may be most suitable for each particu-
lar case. Which sometimes result in some
absence of abscesses not having a free & depend-
ing opening.

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6. Burns.

To prevent union of separate ^{parts} by granulations,
& the deformities which sometimes result after burns
is the contraction of muscles, it is very necessary
to attend to the most important action, namely
in this respect. The granulations on surfaces &
edges of burns are frequently larger,
deformities are more frequent in these cases.
But as contracted surfaces having the property
of contraction, it is right that the position
be such, as to prevent deformity as much as
possible.

Dr. Haller observes relates a case, where the arm
and becomes united to the breast, the arm is
the sides, & the upper arm to the forearm.

Fingers are sometimes united to each other by
union of granulations at the sides.

Burns about movable articulations, are very
apt to embarrass the motion of such joints.

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after they have recast, & the subsequent use of a limb may thus, be very much limited.

I have seen the fingers better permanently extended by being on the back of the hand!

About a year ago, I saw a patient on whom Dr. Gibson operated, whose arm was con- sidered to be in a good position, to the effect of a burn on the anterior part of the elbow joint. The thigh was united to the abdomen by union of granulations. In all such cases, where there is disease of the joint, much can be done to prevent it during the treatment. The union of separate parts can be prevented by the introduction of lint, or strips of linen, spread with simple ointment. The inordinate contraction & excoriation, may be prevented by cotton, gutta, & bandages. If the burn be on the arm next to the wrist, the hand will be kept in a good position. If a joint is un- dermined it ought to be kept in a position, which will resist deformity.

* Hunter on the Blood, page 290.

c. Ulcers.

The experience of surgeons, both ancient, & modern, proves that an ulcer on the leg is less painful & will heal with more rapidity if it be kept in the horizontal position, than if the leg be a dependent. Transmuting an ulcer when the leg is in the horizontal position, may be of a deep, festered nature, & look threatening, but as soon as the position is changed & an erect one, the ulcer will have a joyful turn, from the impediment to venous circulation, pain & swelling will be removed, & the ulcer assume an unhealthy appearance. Mr. Hunter says, "in the erect position the unformed vessels are not able to support the increased column of blood, & to act upon it, which proves that a stagnation of blood is produced, & consequent & often the change in position, & some surgeons are disposed to lay the ulcer in the horizontal position, & advise bandaging the

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and with a roller, & have the intent to walk about,
under the impression that the arm will speedily
be more permanent. Dr. Woodward advises
his method but his experience & a great number
of surgeons, who will agree with the operation.
The plan of treating Malignant ulcers & a few
days has ultimately proved much the same of
just as an elevated position of the limb would
be. The capillary vessels are supported in the
ulcer & traps, & by elevating the limb, there is
in such suspension at all events it will not be
a very long. The venous blood is not impeded, &
the capillaries will be left apt to effuse larger
quantities of serum, & cause ulcers.
In the inflamed & irritable Malignant the longes-
ted, or what is better, an elevated position
of the limb, is of great utility. Without
such instructions on this point, it will be
found very difficult & embarrassing, to treat

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of you very much lately
and wondering how you are
getting on. I hope you are
well and happy. I am
still in the same old place,
but I am trying to make
the best of it. I am
writing you now because
I want to hear from you.
I am sure you will write
back soon.

Alone of this kind. It has obtained great benefit in the treatment of ulcers of the legs at the Almshouse, by placing them over inclined frames considerably elevated.

Lastly, I have seen at the Hospital, assume a healthy aspect in a short time, by proceeding in a similar way.

Varicose Ulcers being produced by the too great distention of the veins, & separation of their walls, so that the valves are incapable of approximation, consequently the length of the column of blood in the veins being increased, inflammation is produced by stasis, & distension, & ulceration supervenes. It would be absurd in the treatment of this species of ulcer, not to regard the position in which the limb is placed. Writers generally recommend the horizontal position, but it is reasonable that sometimes the limb, may be still more horizontal.

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3. Inflammation of the Joints.

Position is very important here, both as regards the cure of inflammation, & the prevention of deformity.

To detract blood from the joint, the limb is directed to be considerably elevated by pillows, a roll, indeed inclined plane, or elevation of the foot of the bedstead.

Surgeons are chiefly indebted to Dr. Physick for a knowledge of this practice, & by him much importance is attached to it. The benefit of local bleeding is obtained in this way, & where the knee, or ankle joint is inflamed, it should never be neglected. The practice is applicable to sprains, wounds or other injuries of these joints.

In inflammation of the synovial membrane, or in the osteo-synovial inflammation of the bones, called white swelling, much good is effected by taking off the force of the circulation by an elevation.

[Faint, illegible handwriting on a blank page, likely bleed-through from the reverse side.]

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position of the limb, but below this, the joint must be kept perfectly at rest, which is indispensable in effecting a cure.

Inflammation of the knee, or wrist, joint, is likewise, by elevating the arm, much relieved.

But independent of the reduction of inflammation in joints, position is of the almost consequence in preventing deformity. When inflammation is very violent, Ankylosis is very apt to be the result, & this being the case, the limb will afterwards be useless, or but then some, according to the position that has been assumed. To relieve acute pain in inflammation of the hip, knee, or other joints, are very much in the habit of keeping the limb, & ankylosis taking place under these circumstances, the member is not only useless, but is rather an incurable source for our suffering.

The patient on whom Dr. H. Barton operated, & made an artificial joint, had a deformed limb in consequence of inattention to position during high inflammation.

Jan 21 1861

Dear Mother

I have just received

your letter of the 19th

& the same day

sent it to the

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and it is now

in the hands of

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and will be

delivered to you

in a few days

I am very

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to hear from

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Yours affectionately

I do not think regretted why at the Rochester, but
was admitted at night, up to the third, to some
other person. And then at present, a few are in the
Lower room, I believe, he has had much information
of the case, with the case at present, as with the
high. The last case in this position when he was ad-
mitted, & it was found impossible to correct it
afterwards.

It should therefore be made a rule, in every case,
there seems to require a moderate amount, to allow it on
the side which will be most useful, should such
an accident happen.

The first in this case, is to be kept at night, as
to the case, as to the acute joint which is supposed.
If it be the knee, the leg must be extended. When
the elbow joint is implicated, it is obvious that
the arm will be most useful, in a first position,
& hence Dr. Physick recommends the regular position,
in fractures of the humerus of the humerus. But the



limb must be given in the position ^{desired}, as it remains by anchylosis, but also by the ^{anatomical} ^{position} being ^{unfavourable} to ^{rest} in an ^{improper} position. Extremely ^{unfavourable} ^{position} ^{of} ^{the} ^{limb} ⁱⁿ ^{the} ^{beginning} ^{of} ^{the} ^{disease}, are ^{very} ^{much} ^{inclined} ^{to} ^{lead} ^{the} ^{limb} ⁱⁿ ^{the} ^{beginning} ^{of} ^{the} ^{disease}, ^{to} ^{the} ^{high}. It ^{is} ^{not} ^{that} ^{they} ^{are} ^{not} ^{as} ^{easy} ^{as} ^{possible}, ^{as} ^{one} ^{of} ^{the} ^{most} ^{indications} ⁱⁿ ^{the} ^{treatment} ^{of} ^{the} ^{disease}. This ^{should} ^{always} ^{be} ^{attended} ^{to} ^{at} ^{the} ^{com-}
^{mencement} ^{of} ^{the} ^{disease}, because if it is neglected, or
prolonged too long, it may then be impossible to prevent
deformity from taking place.

The above indication is to be fulfilled, by applying
a splint to the outside of the limb, & allowing it to
extend from the heel to the knee & higher. Being
held in this position, if the joint becomes anchylosed,
which it frequently does, & which is one of nature's
efforts to bring about a cure, the patient will
have a more useful limb, than if it had been al-
lowed to rest in any other position.

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Should remaining long in any position. Similarly, when
it is immovable, only extending up to the line to show
tissue in inflammation, it after operations, is left
to see deformed stuff in settling, without any
evidence of the tissue existing. There is a case of this kind
in the medical at present. When the patient died
in operation, removed on himself for necrosis.
He was placed in the recumbent posture several
months, & he remains up to this time to show the result,
wherefore his leg must be considered deformed,
if not he may however, ultimately be relieved.

14th Wounds.

a. Incised wounds. To approximate the lips of an
incised wound, & maintain them in apposition, it is
 requisite that a proper posture be selected, which if
not attended to, union of the wound to the first
intention will be prevented, & a wound which
might have healed in a few days, is made to

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occupies much more time in being cured. In temporary wounds, the part must be so placed as to relax the muscles, & the same position which relaxes the muscles & tendons, will also relax the integument. A higher position with a bandage applied, will frequently keep the lips of a wound in contact without using adhesive straps or sutures.

As a general rule in incised wounds of flexor muscles, the limb ought to be flexed, & if the extensor muscles which are injured, the extended position will assist in bringing the parts together.

But in longitudinal wounds of the extremities, the relaxed position will not always be that which is best calculated to approximate the divided parts. Thus in longitudinal wounds of the extensor muscles of the thigh, the flexed position will be best adapted for drawing the parts together.

I saw a case of incised wound in the Hospital in July last, in which the maintenance of position

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was strikingly illustrated. A man had received
a lacerated wound in the thigh, by a cradling machine,
in a harvest field. The wound was in the superior
& anterior part of the thigh, & in depth, extended
to the bone. By situation was such as to leave the
most vessels untouched, or it must have speedily
proved fatal by profuse hemorrhage.

The patient was placed in the recumbent posture,
& on his abdomen, the wound was then easily closed
by sutures, & adhesive strips. By keeping him in
this position, in about ten days, one of the most
extensive wounds was united by the first intention,
with the view of suppressing hemorrhage in wounds,
it is frequently advantageous to elevate the part
wounded, to diminish the force of the circulation.

6. Punctured wounds.

Contused & punctured wounds are very liable to be
followed by a high degree of inflammation, & it is
therefore often useful, to keep the part elevated.

* Gibson Library Vol. 1. page 161.

as to drain off blood, & act as a local depletion.

c. Wounds of particular parts.

Wounds of the neck. Patients affected by mental derangement, are most frequently the subjects of these wounds, & it is therefore often difficult to keep the head in a proper position. If the head be thrown back, the lips will separate, & the wound will gape, & assume a frightful appearance. But if the chin is brought forward, the aperture becomes closed, & the wound has a more natural appearance. Surgeons therefore, generally recommend the chin to be brought forward, & supported on the breast, & to be confined in this position. Dr. Gibson says the practice is objectionable, "inasmuch as the parts overlap, & unite irregularly, & in an unnatural position, create deformity, & leave an ugly gap."

This plan is to use a common leather stock, similar to those worn by military men, which being slightly confined to the neck, supports the chin.

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keeps the hand in a natural position. In wounds on the back of the neck, it is obvious, the position of the head must be the reverse of that for wounds anteriorly. To support the head, & keep the wound properly approximated, a particular bandage has been invented, which is described in Allans Surgery. The recumbent posture is necessary in wounds of the abdomen, to relax the muscles, & integuments, & to throw the weight of the abdominal contents on the spine.

d. Wounds of being.

A leading object in wounds of the veins, is to empty them as much as can be done, by the position of the limb. And this should be such, as to drain the veins, & allow of the gravitation of the blood to the heart. In the arm, & leg, an elevated position will have this effect, & prevent the accumulation of blood, & too great distention of the veins, which might interfere with reunion.

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I might next proceed in the consideration of
position, in various other diseases, & accidents,
such as diseased spine, Hernia, fracture & dis-
locations, & indeed almost every surgical disease;
but this would lead me far beyond the limits I
had originally prescribed for myself. Some of the
most important, practical indications, so far
as position is concerned, have been alluded to, &
I must now conclude this essay, hoping that it
may meet the approbation of those, to whom it
is submitted.

Phila del